PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY	PCT				
3135 Easton Turnpike W3C Fairfield, CT 06828 OC UNITED STATES OF AMERICA	NOTIFICATION OF TRANSMITTAL OF CONTROL SEARCH REPORT OR THE DECLARATION [2 1 2003				
Applicant's or agent's file reference	(day/month/year) 17/10/2003				
RD26623	FOR FURTHER ACTION See paragraphs 1 and 4 below				
International application No. PCT/US 03/04253	International filing date (day/month/year) 12/02/2003				
Applicant					
GENERAL ELECTRIC COMPANY					
Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the clai When? The time limit for filing such amendments is norm International Search Report; however, for more of the Uniternational Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Fascimile No.: (41–22) 740.14.3 For more detailed instructions, see the notes on the acc	ally 2 months from the date of transmittal of the etails, see the notes on the accompanying sheet.				
3. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:					
applicant's request to forward the texts of both the pro-	en transmitted to the International Bureau together with the otest and the decision thereon to the designated Offices. Splicant will be notified as soon as a decision is made.				
4. Further action(s): The applicant is reminded of the following:					
Shortly after 18 months from the priority date, the international a If the applicant wishes to avoid or postpone publication, a notic priority claim, must reach the International Bureau as provided completion of the technical preparations for international public	e of withdrawal of the international application, or of the in Rules 90 <i>bis</i> .1 and 90 <i>bis</i> .3, respectively, before the				
Within 19 months from the priority date, a demand for internatio wishes to postpone the entry into the national phase until 30 m					
Within 20 months from the priority date, the applicant must perfore all designated Offices which have not been elected in the priority date or could not be elected because they are not bour	he demand or in a later election within 19 months from the				

Name and mailing address of the International Searching Authority

Authorized officer

European Patent Office, P.B. 5818 Patentlaan 2

NL-2280 HV Rijswijk

Tel (+31-70) 340-2040, Tv. 31 651 eng pl

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase; all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been is filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (c ntinued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being und retood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new:
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]:
 "Claims 1 to 15 replaced by amended claims 1 to 11."
- (Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims):
 - "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference RD26623		of Transmittal of International Search Report /220) as well as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/US 03/04253	12/02/2003	
Applicant		-
GENERAL ELECTRIC COMPANY		· · · · · · · · · · · · · · · · · · ·
according to Article 18. A copy is being t		nthority and is transmitted to the applicant
	s of a total of \$ sheets. y a copy of each prior art document cited in the	is report.
Basis of the report		
With regard to the language, the language in which it was filed, ur	e international search was carried out on the b nless otherwise indicated under this item.	asis of the international application in the
_		the international application furnished to this
Authority (Rule 23.1(b)).		
 b. With regard to any nucleotide a was carried out on the basis of the 	nd/or amino acid sequence disclosed in the ne sequence listing:	international application, the international search
	ional application in written form.	
filed together with the int	ternational application in computer readable fo	rm.
furnished subsequently t	to this Authority in written form.	
furnished subsequently t	to this Authority in computer readble form.	
the statement that the su international application	ubsequently furnished written sequence listing as filed has been furnished.	does not go beyond the disclosure in the
the statement that the in furnished	formation recorded in computer readable form	is identical to the written sequence listing has been
2. Certain claims were for	und unsearchable (See Box I).	
3. Unity of invention is la	·	
4. With regard to the title,		
X the text is approved as s	submitted by the applicant.	
the text has been establi	ished by this Authority to read as follows:	
	<u>.</u>	
5. With regard to the abstract,		
	submitted by the applicant.	•
	ished, according to Rule 38.2(b), by this Authone dat of mailing of this international search re	ority as it appears in Box III. The applicant may, eport, submit comments to this Authority.
6. The figure of the drawings to be put	blished with the abstract is Figure No.	1
as suggested by the app	olicant.	Non of the figures.
because the applicant fa	illed to suggest a figure.	_
because this figure bette	er characterizes the invention.	

INTERNATIONAL SEARCH REPORT

International Application No PCT/US 03/04253

Relevant to claim No.

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 B01J3/06 B01J3/04

B01J3/03

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Category of Citation of document, with indication, where appropriate, of the relevant passages

IPC 7 B01J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

figures 3,6

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,

L		i
X	US 6 398 867 B1 (D EVELYN MARK PHILIP ET AL) 4 June 2002 (2002-06-04) the whole document	1-52
Х	US 1 986 196 A (GROSSE ARISTID V) 1 January 1935 (1935-01-01)	1-4,11, 15,16,
	page 2, right-hand column, line 6 -page 2, right-hand column, line 54; figures 4,5	20,52
х	US 4 430 051 A (VON PLATEN BALTZAR C) 7 February 1984 (1984-02-07) column 4, line 35 -column 4, line 54;	1-4

Further documents as	re listed in the continuation of box C.	X	Patent family members are listed	in annex.		
 Special categories of cited A document defining the gonsidered to be of par 	eneral state of the art which is not	•т•	later document published after the inte or priority date and not in conflict with cited to understand the principle or the	the application but		
E earlier document but put filing date	olished on or after the international	•x•	invention document of particular relevance; the cannot be considered novel or cannot	be considered to		
which is cited to establi citation or other special		٠٧٠	"Y" document of particular relevance; the claimed inv cannot be considered to involve an inventive ste	laimed invention ventive step when the		
other means 'P' document published prio	cument referring to an oral disclosure, use, exhibition or ner means ument published prior to the international filing date but			nent is combined with one or more other such docu- , such combination being obvious to a person skilled art.		
later than the priority da	ate claimed	·&*	document member of the same patent	family		
Date of the actual completion	of the international search		Date of mailing of the international sea	arch report		
10 October	2003		17/10/2003			

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 03/04253

		PCT/US 03/04253
	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication where appropriate, of the relevant passages	Relevant to claim No.
X X	EP 0 860 182 A (HITACHI LTD) 26 August 1998 (1998-08-26) page 4, line 27 -page 4, line 37; claims 27-34; figures 1,2	1-4,40, 41
	US 2 745 713 A (SUITS CHAUNCEY G) 15 May 1956 (1956-05-15) column 2, line 52 -column 2, line 66; figure 1	40-44
	FR 2 796 657 A (THOMSON CSF) 26 January 2001 (2001-01-26) page 5, line 24 -page 6, line 11; claim 22	52
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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/US 03/04253

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
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			JP	2003511326 T	25-03-2003
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			CA	1159622 A1	03-01-1984
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